

## REPORT OF SURVEY ON REFRIGERATING MACHINERY &amp; APPLIANCES.

(Received at London Office)

MAR 2 1940

Date of writing Report 30th Jan. 1940 When handed in at Local Office 30th Jan. 1940 Port of YOKOHAMA

No. in  
Reg. Book. 25551

Survey held at YOKOHAMA

Date: First Survey 17th Jan. Last Survey 26th Jan. 1940.

(No. of Visits) Two

on the Refrigerating Machinery and Appliances of the T. S. S. "HAKOZAKI MARU"

Gross 10413 Kessel built at Nagasaki  
Net 6310 Owners Nippon Yusen K.K.

By whom Mitsubishi Zosen K. Id. When 1922-6

Port Tokyo

Voyage X

Last Survey No. 4568 Port Shi

## PARTICULARS AS ENTERED IN REGISTER BOOK.

REFRIGERATING MACHINES.					System of (1) Refrigerating (2) Insulating the Chambers.	POWER.		INSULATED CARGO CHAMBERS.		Notation and Date of Last Complete Periodical Survey.
No. of Units.	No. of Compressors.	System.	Makers.	Date of Construction.		Cubic feet of air delivered per hour.	Ice melting capacity per 24 hours. Tons.	No.	Capacity. Cubic ft.	
2	2	Carb Anhy	J & E Hall, Ltd	1922	Brine Slab Cork	X	12	3	8,240	Lloyd's RMC 8-39

## Particulars of Examination and Repairs for Complete Periodical Survey or Modified Survey.

Has the machinery been examined under working conditions. Yes before or after the refrigerated cargo was discharged Before loading.

Density of brine 45 by TW. hydrometer. TEMPERATURES of air at the snow box and of the return air X &amp; X

or, delivery and return air at direct expansion or brine cooled batteries X &amp; X, outflow and return brine -11°F &amp; -7°F

atmosphere 60°F, cooling water inlet and discharge 47°F &amp; 51°F, gas in condensers and evaporators 62°F &amp; -21°F

AVERAGE TEMPERATURE in each refrigerated chamber, as per log, before loading commenced

Port cargo chamber 10°F  
Centre " " 10°F  
Starbd. " " 9°F

Condenser Coils, date of last test Port 4-1939 Starbd. 11-1938 If machinery is electrically driven, date of last examination of a generator X

Have all the working parts of the refrigerating machines and of the auxiliary machinery been examined Yes Is the spare gear in accordance with the Rules Yes

Have the gas condenser and evaporator coil terminals, been examined Yes Have the direct expansion or brine cooled battery coils been examined X

Have the refrigerating liquid pipes, separators and receivers, and the gas return pipes been examined externally as far as practicable Yes

Has the insulation been examined throughout the cargo chambers Yes Where

granulated cork or similar media are employed for insulating purposes, has such insulation been examined for fullness and dryness Yes Have the test holes been efficiently closed Yes

Have all bilge hatches and manhole plugs been removed, the bilges cleared, and the suction pipes, suction roses, sounding pipes and manhole door fastenings been examined X

Have the hatches, and thermometer tubes with their connections and fastenings been examined Yes Have the watertight doors been examined and worked X

Have the brine pipes been examined Yes, under what conditions frosted Have the sea injection valves been opened and examined X

If the Survey is not complete, state what arrangements have been made for its completion and what remains to be done Complete.

Now done:- Port refrigerating machinery and auxiliaries examined throughout and found in good order.

Starboard machine compressor cylinder, cover, &amp; valves examined and found in good order.

The port, centre and starboard cargo chambers frosted to the temperatures 10°F, 10°F &amp;

9°F respectively, examined internally and the insulation brine piping, thermometer tubes

and connections found in order.

The refrigerating machinery and appliances examined under working condition and found satisfactory.

General observations, opinion, and recommendation The Refrigerating machinery and the Insulation

NOTE:-A new Date of Survey should only be recommended in the case of a Complete Periodical Survey.

and Appliances of this vessel are in good condition and eligible in my opinion to remain as classed

with fresh record of Lloyd's RMC 1-40, and fit to carry refrigerated cargo during the contemplated

voyage to U.K.

Fee £ 60.00 :

Loading Y 60.00

Travelling Expenses £ 3.00 :

Fee applied for, 27th January, 1940.

Received by me, 30th Jan. 1940

Committee's Minute

Assigned + Lloyd's Rmb 1.40

Surveyor to Lloyd's Register of Shipping.

009116-009121.0112



It is submitted that  
this vessel is eligible for  
THE RECORD, + Lloyd's June 1-40.

Part Summary

GA

6/3/40

Detach both  
Repts



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Lloyd's Register  
Foundation